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Title STRUCTURED PROGRAMME FOR THE DEVELOPMENT OF COMPACT JET ENGINES FOR UNMANNED VEHICLES

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Abstract

A case is made out for embarking upon an ab-initio design of expendable but compact jet engine gas turbine. Application areas in defence sector are explored and the timely need for this developmental programme is established. The basic gas turbine to be built around a single stage centrifugal compressor would be a technology demonstrator of modern concepts. A structured programme for a family of derivatives arising out of the basic engine is shown to be technically viable and cost effective.